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*In the Claims*

The status of claims in the case is as follows:

1 1-3. [Canceled]

1 4. [Currently amended] A method for monitoring a computer  
2 software system by reading log records written by said  
3 software system to determine performance of said software  
4 system relative to response time to end users, comprising:

5 adjustably tuning performance evaluation bias by a  
6 computer software monitoring system between processor  
7 and memory consumption;

8 responsive to said bias, monitoring performance of said  
9 computer software system with respect to transaction  
10 time parameters including said response time to end  
11 users;

12 receiving from a user a first tuning parameter for  
13 allocating memory for said monitoring performance and a  
14 second tuning parameter for specifying time out for in-  
15 flight units of work;

16 ~~The method of claim 1, further comprising:~~

17 initializing said memory with an in-flight transactions  
18 vector table for anchoring synonym chains of in-flight  
19 transaction cells;

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20 accumulating time statistics for in-flight transactions  
21 in said in-flight transaction cells;

22 initializing said memory with a completed transactions  
23 table for storing time statistics for completed  
24 transactions;

25 receiving from said computer software system a  
26 transaction log record for a unit of work;

27 hashing said first transaction log record to select  
28 from said vector table an anchor to an in-flight  
29 transaction cells chain corresponding to said unit of  
30 work;

31 searching said in-flight transaction cells chain for  
32 said unit of work;

33 responsive to finding said unit of work in said in-  
34 flight transaction cells chain, capturing to said in-  
35 flight transaction cell timing statistics from said  
36 transaction log record;

37 responsive to not finding said unit of work in said in-  
38 flight transaction cells chain, chaining a new in-  
39 flight transaction cell to said chain and capturing to  
40 said new in-flight transaction cell timing statistics  
41 from said transaction log record; and

42 determining if said transaction log record completes a  
43 transaction and, if so, updating said completed  
44 transactions table with timing statistics for said

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45 transaction and removing said in-flight transaction  
46 cell from said in-flight transaction cells chain.

1 5. [Currently amended] A method for monitoring a computer  
2 software system by reading log records written by said  
3 software system to determine performance of said software  
4 system relative to response time to end users, comprising:

5 adjustably tuning performance evaluation bias by a  
6 computer software monitoring system between processor  
7 and memory consumption;

8 responsive to said bias, monitoring performance of said  
9 computer software system with respect to transaction  
10 time parameters including said response time to end  
11 users;

12 receiving from a user a first tuning parameter for  
13 allocating memory for said monitoring performance and a  
14 second tuning parameter for specifying time out for in-  
15 flight units of work;

16 ~~The method of claim 1, further comprising~~

17 initializing said memory with an in-flight transactions  
18 vector table for anchoring synonym chains of in-flight  
19 transaction cells;

20 accumulating time statistics for in-flight transactions  
21 in said in-flight transaction cells;

22 initializing said memory with a completed transactions

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23 table for storing time statistics for completed  
24 transactions;

25 receiving from said computer software system a  
26 transaction log record for a unit of work;

27 hashing said first transaction log record to select  
28 from said vector table an anchor to an in-flight  
29 transaction cells chain corresponding to said unit of  
30 work;

31 searching said in-flight transaction cells chain for  
32 said unit of work;

33 responsive to finding said unit of work in said in-  
34 flight transaction cells chain, capturing to said in-  
35 flight transaction cell timing statistics from said  
36 transaction log record;

37 responsive to not finding said unit of work in said in-  
38 flight transaction cells chain, chaining a new in-  
39 flight transaction cell to said chain and capturing to  
40 said new in-flight transaction cell timing statistics  
41 from said transaction log record;

42 determining if said transaction log record completes a  
43 transaction and, if so, updating said completed  
44 transactions table with timing statistics for said  
45 transaction and removing said in-flight transaction  
46 cell from said in-flight transaction cells chain; and

47 determining responsive to said second tuning parameter

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48 if a selected unit of work being accumulated in a  
49 selected in-flight transaction cell has timed out, and  
50 if so removing from said selected in-flight transaction  
51 cell from said in-flight transaction cell chain and  
52 selectively updating said completed transactions table  
53 with timing statistics for said selected unit of work.

1 6. [Canceled]

2 7. **[Currently amended]** A system for monitoring a computer  
3 software system by reading log records written by said  
4 software system to determine performance of said software  
5 system relative to response time to end users, comprising:

6 a first user actuated tuning knob for allocating space  
7 in memory for performance monitoring;

8 a second user actuated tuning knob for a specifying  
9 time out value for in-flight units of work;

10 a transaction monitor responsive to said first and  
11 second user actuated tuning knobs for accumulating, in  
12 synonym chain cells in said space, timing statistics  
13 for a plurality of said in-flight units of work;

14 ~~The system of claim 6, further comprising:~~

15 said memory including an in-flight transactions vector  
16 table for anchoring synonym chains of in-flight  
17 transaction cells;

18 said in-flight transaction cells for accumulating time

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19 statistics for in-flight transactions;

20 said memory including a completed transactions table  
21 for storing time statistics for completed transactions;

22 a monitor for receiving from said computer software  
23 system a transaction log record for a unit of work;

24 said monitor hashing said first transaction log record  
25 to select from said vector table an anchor to an in-  
26 flight transaction cells chain corresponding to said  
27 unit of work;

28 said monitor for searching said in-flight transaction  
29 cells chain for said unit of work;

30 said monitor further responsive to finding said unit of  
31 work in said in-flight transaction cells chain for  
32 capturing to said in-flight transaction cell timing  
33 statistics from said transaction log record;

34 said monitor further responsive to not finding said  
35 unit of work in said in-flight transaction cells chain  
36 for chaining a new in-flight transaction cell to said  
37 chain and capturing to said new in-flight transaction  
38 cell timing statistics from said transaction log  
39 record;

40 said monitor further for determining if said  
41 transaction log record completes a transaction and, if  
42 so, updating said completed transactions table with  
43 timing statistics for said transaction and removing

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44 said in-flight transaction cell from said in-flight  
45 transaction cells chain; and

46 said monitor further for determining responsive to said  
47 second tuning knob if a selected unit of work being  
48 accumulated in a selected in-flight transaction cell  
49 has timed out, and if so removing from said selected  
50 in-flight transaction cell from said in-flight  
51 transaction cell chain and selectively updating said  
52 completed transactions table with timing statistics for  
53 said selected unit of work.

1 8-10. [Canceled]

1 11. **[Currently amended]** A program storage device readable  
2 by a machine, tangibly embodying a program of instructions  
3 executable by a machine to perform method steps for  
4 monitoring a computer software system by reading log records  
5 written by said software system to determine performance of  
6 said software system relative to response time to end users,  
7 said method comprising:

8 adjustably tuning performance evaluation bias between  
9 processor and memory consumption;

10 responsive to said bias, monitoring performance of said  
11 computer software system with respect to transaction  
12 time parameters;

13 receiving from a user a first tuning parameter for  
14 allocating memory for said monitoring performance and a  
15 second tuning parameter for specifying time out for in-

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16        flight units of work;

17        ~~The program storage device of claim 8, said method~~  
18        ~~further comprising:~~

19        initializing said memory with an in-flight transactions  
20        vector table for anchoring synonym chains of in-flight  
21        transaction cells;

22        accumulating time statistics for in-flight transactions  
23        in said in-flight transaction cells;

24        initializing said memory with a completed transactions  
25        table for storing time statistics for completed  
26        transactions;

27        receiving from said computer software system a  
28        transaction log record for a unit of work;

29        hashing said first transaction log record to select  
30        from said vector table an anchor to an in-flight  
31        transaction cells chain corresponding to said unit of  
32        work;

33        searching said in-flight transaction cells chain for  
34        said unit of work;

35        responsive to finding said unit of work in said in-  
36        flight transaction cells chain, capturing to said in-  
37        flight transaction cell timing statistics from said  
38        transaction log record;

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39 responsive to not finding said unit of work in said in-  
40 flight transaction cells chain, chaining a new in-  
41 flight transaction cell to said chain and capturing to  
42 said new in-flight transaction cell timing statistics  
43 from said transaction log record; and

44 determining if said transaction log record completes a  
45 transaction and, if so, updating said completed  
46 transactions table with timing statistics for said  
47 transaction and removing said in-flight transaction  
48 cell from said in-flight transaction cells chain.

1 12. [**Currently amended**] A program storage device readable  
2 by a machine, tangibly embodying a program of instructions  
3 executable by a machine to perform method steps for  
4 monitoring a computer software system by reading log records  
5 written by said software system to determine performance of  
6 said software system relative to response time to end users,  
7 said method comprising:

8 adjustably tuning performance evaluation bias between  
9 processor and memory consumption;

10 responsive to said bias, monitoring performance of said  
11 computer software system with respect to transaction  
12 time parameters;

13 receiving from a user a first tuning parameter for  
14 allocating memory for said monitoring performance and a  
15 second tuning parameter for specifying time out for in-  
16 flight units of work;

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17 ~~The program storage device of claim 8, said method~~  
18 ~~further comprising~~

19 initializing said memory with an in-flight transactions  
20 vector table for anchoring synonym chains of in-flight  
21 transaction cells;

22 accumulating time statistics for in-flight transactions  
23 in said in-flight transaction cells;

24 initializing said memory with a completed transactions  
25 table for storing time statistics for completed  
26 transactions;

27 receiving from said computer software system a  
28 transaction log record for a unit of work;

29 hashing said first transaction log record to select  
30 from said vector table an anchor to an in-flight  
31 transaction cells chain corresponding to said unit of  
32 work;

33 searching said in-flight transaction cells chain for  
34 said unit of work;

35 responsive to finding said unit of work in said in-  
36 flight transaction cells chain, capturing to said in-  
37 flight transaction cell timing statistics from said  
38 transaction log record;

39 responsive to not finding said unit of work in said in-  
40 flight transaction cells chain, chaining a new in-

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41 flight transaction cell to said chain and capturing to  
42 said new in-flight transaction cell timing statistics  
43 from said transaction log record;

44 determining if said transaction log record completes a  
45 transaction and, if so, updating said completed  
46 transactions table with timing statistics for said  
47 transaction and removing said in-flight transaction  
48 cell from said in-flight transaction cells chain; and

49 determining responsive to said second tuning parameter  
50 if a selected unit of work being accumulated in a  
51 selected in-flight transaction cell has timed out, and  
52 if so removing from said selected in-flight transaction  
53 cell from said in-flight transaction cell chain and  
54 selectively updating said completed transactions table  
55 with timing statistics for said selected unit of work.

13. [Canceled]

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